

## Product Information

### Dynamin inhibitor, Dynasore, Purity ≥98%

**Cat. No.:** X24-08-YM277

**Size:** 10 mg; 25 mg; 50 mg; 100 mg

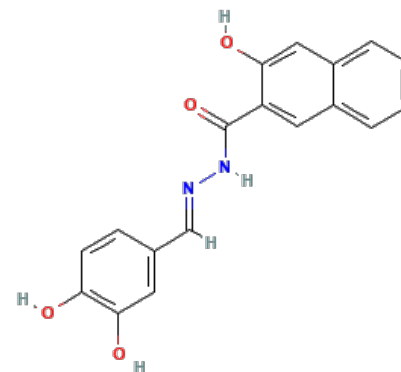
**MDL:** MFCD00292551

**CAS Number:** 304448-55-3

**Compound CID:** 135533054

**Synonym:** 304448-55-3; Dynamin inhibitor I, dynasore; *N*-[(*E*)-(3,4-Dihydroxyphenyl)methylideneamino]-3-hydroxynaphthalene-2-carboxamide

**This product is for research use only and is not intended for diagnostic use.**



#### Product Information

<b>Description</b>	Dynasore, soluble in DMSO and insoluble in water and ethanol, is an effective cytoskeleton inhibitor, that has the ability to prevent the pathway of cytoskeletal signaling by inhibiting dynamin. It targets the dynamin1/2 (cell-free assay).
<b>Molecular Weight</b>	322.32
<b>Molecular Formula</b>	C <sub>18</sub> H <sub>14</sub> N <sub>2</sub> O <sub>4</sub>
<b>Targets</b>	Dynamin1/2 (Cell-free assay): 15 μM
<b>IUPAC Name</b>	<i>N</i> -[( <i>E</i> )-(3,4-Dihydroxyphenyl)methylideneamino]-3-hydroxynaphthalene-2-carboxamide
<b>InChI</b>	InChI=1S/C18H14N2O4/c21-15-6-5-11(7-17(15)23)10-19-20-18(24)14-8-12-3-1-2-4-13(12)9-16(14)22/h1-10,21-23H,(H,20,24)/b19-10+
<b>InChI Key</b>	SYNDQCRDGGCQRZ-VXLYETTFSA-N
<b>Canonical SMILES</b>	C1=CC=C2C=C(C(=CC2=C1)C(=O)NN=CC3=CC(=C(C=C3)O)O)O
<b>Isomeric SMILES</b>	C1=CC=C2C=C(C(=CC2=C1)C(=O)N/N=C/C3=CC(=C(C=C3)O)O)O
<b>Form</b>	Lyophilized powder
<b>Purity</b>	≥98%
<b>Titer</b>	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects
<b>Solubility</b>	<i>In vitro</i> : DMSO: 60 mg/mL (186.15 mM); Water: insoluble; Ethanol: insoluble; <i>In vivo</i> : 5% DMSO + 30% PEG 300 + 5% Tween 80 + ddH <sub>2</sub> O, 3 mg/mL
<b>Stability</b>	In its lyophilized form, the chemical remains stable for 36 months.
<b>Quality Level</b>	Research grade
<b>Applications</b>	Dynasore is a cytoskeletal signaling inhibitor that can be used for its effects on cellular processes



involving dynamin, such as vesicle trafficking and endocytosis.

---

**Storage**

Store at -20°C, and keep desiccated.

---